

Appl. No. : 10/005,684
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Q1 cont
motif (whose amino acid sequence is as follows: SLKLMATLFSTYASA (SEQ ID NO:1)). This motif is found in proteins from a multitude of viruses, bacteria, fungi, and protozoa, which are involved in cardiovascular disease.

Please replace Paragraph [0031] as follows:

Q2
[0031] Using phage peptide display library with murine antibody to R4A peptide mimotope for autoantigen was identified. R4A binds to dsDNA and fibronectin and deposits in glomeruli of nonautoimmune mice. The 5-mer peptide DWEYS (SEQ ID NO:2) inhibited binding of R4A to dsDNA as well as binding of R4A to renal tissue. Moreover, when nonautoimmune BALB/C mice were injected with the peptide "DWEYSVWLSN" (SEQ ID NO:3) attached to a polylysine backbone, mice developed lupus-like autoimmunity.

Please replace Paragraph [0073] as follows:

Q3
[0073] Myosin pathogenic peptide "SLKLMATLFSTYASA" (SEQ ID NO:1) was synthesized by a robotic multiple peptide synthesizer and resin was used as solid support. Peptide was characterized by reversed-phase HPLC and electrospray mass-spectrometry with purity greater than 80%. This peptide was bound to bovine serum albumin and used for coating microtiter plates.

Please replace Paragraph [0080] as follows:

Q4
[0080] Human HSP60 Peptide "AMTIAKNAGEGSLIVEKIM" (SEQ ID NO:4) was synthesized by a robotic multiple peptide synthesizer and resin was used as solid support. Peptide was characterized by reversed-phase HPLC and electrospray mass-spectrometry with purity greater than 80%. This peptide was bound to bovine serum albumin and used for coating microtiter plates.

Please replace Paragraph [0093] as follows:

Q5
[0093] The following peptides were synthesized by a robotic multiple peptide synthesizer:

| | Peptide portion |
|-----------|-------------------------------------------------------------------|
| Lupus | SWEYSVWLSN (SEQ ID NO:5) or KARIHPFHILIALETYKTGH (SEQ ID NO:6) |
| Arthritis | LSIALHVGFDHFEQLLSG (SEQ ID NO:7) |